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AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions of claims in the application:

Listing of Claims:

(Currently amended) Electrodeposited fibrin matrix with cells, wherein the cells
are delivered to the matrix during fabrication of the electrodeposited fibrin matrix, wherein the
cells are suspended in a solution comprising molecules capable of forming fibrin during delivery
to the matrix, and wherein a cross-linking agent is added to the electrodeposited fibrin matrix.

(Cancelled)

- (Withdrawn) The electroprocessed fibrin matrix of claim 2, further comprising cells.
- (Previously presented) The electrodeposited fibrin matrix of claim 1, further comprising one or more substances.
- (Previously presented) The electrodeposited fibrin matrix of claim 4, wherein the one or more substances is a growth factor, differentiation inducer, anti-oxidant, vitamin, hormone, nucleic acid, drug, peptide, emollient, humectant, conditioner or cosmetic.
- (Withdrawn) An engineered tissue comprising the electroprocessed fibrin matrix of claim 2 and cells.
- (Withdrawn) The engineered tissue of claim 6, further comprising one or more substances.
- 8. (Withdrawn) The engineered tissue of claim 6, wherein the cells are stem cells or differentiated cells
 - (Withdrawn) A method of delivering a substance to a desired location comprising; adding a substance to the electroprocessed fibrin of claim 1; and placing the electroprocessed fibrin containing the substance in the desired

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location.

 (Withdrawn) A method of delivering a substance to a desired location comprising; adding a substance to the electroprocessed fibrin matrix of claim 2; and, placing the electroprocessed fibrin matrix containing the substance in the desired location.

location.

- (Withdrawn) A method of treating a wound, comprising applying the electroprocessed fibrin of claim 1 to the wound.
- (Withdrawn) A method of treating a wound, comprising applying the electroprocessed fibrin matrix of claim 1 to the wound.
- (Withdrawn) A method of providing hemostasis, comprising applying the electroprocessed fibrin of claim 1 to a site of bleeding.
- (Withdrawn) A method of providing hemostasis, comprising applying the electroprocessed fibrin matrix of claim 1 to a site of bleeding.
- 15. (Withdrawn) A method of evaluating a biological response of a cell to a substance, comprising:
- applying the substance to the electroprocessed fibrin matrix and cells of claim 3; and,
 - evaluating the biological response of the cell.
 - 16. (Withdrawn) The method of claim 15, wherein the cell is a cancer cell.
- (Withdrawn) A method of manufacturing the electroprocessed fibrin of claim 1, comprising:
- electrodepositing one or more electrically charged solutions comprising fibrin or molecules capable of forming fibrin onto a grounded target substrate under conditions effective to electrodeposit fibrin or molecules capable of forming fibrin on said substrate to form the electroprocessed fibrin.
- 18. (Withdrawn) A method of manufacturing the electroprocessed fibrin of claim 2, comprising:
 - electrodepositing one or more electrically-charged solutions comprising fibrin or

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molecules capable of forming fibrin onto a grounded target substrate under conditions effective to electrodeposit fibrin or molecules capable of forming fibrin on said substrate to form the electrodeposited fibrin matrix.

 (Withdrawn) A method of manufacturing the engineered tissue of claim 6, comprising:

electrodepositing one or more electrically-charged solutions comprising fibrin or molecules capable of forming fibrin, and cells, onto a grounded target substrate under conditions effective to deposit the electroprocessed fibrin or molecules capable of forming fibrin and the cells onto the substrate.

 (Withdrawn) A method of manufacturing the engineered tissue of claim 6, comprising:

electrodepositing one or more electrically-charged solutions comprising fibrin or molecules capable of forming fibrin onto a grounded target substrate under conditions effective to deposit the electroprocessed fibrin or molecules capable of forming fibrin; and,

applying cells onto the substrate or into a stream of the electroprocessed fibrin or molecules capable of forming fibrin, wherein the stream is located between the grounded target substrate and the solutions

- 21. (Currently amended) An electrodeposited fibrin matrix with cells, wherein the cells are entrapped within the matrix during fabrication of the electrodeposited fibrin matrix, wherein the cells are suspended in a fibrinogen solution during delivery to the matrix, and wherein a cross-linking agent is added to the electrodeposited fibrin matrix.
- 22. (Withdrawn) An engineered tissue comprising an electroprocessed fibrin matrix and cells